

## MasterDrive KX3 Series

### Micro SATA-II 3Gbps SSD

## uSATA Solid State Drive



The MasterDrive KX3 is a performance 1.8" SATA-II SSD. Featuring a 128MB internal cache, the MasterDrive KX3 delivers best in class performance. With no moving parts, the KX3 is quiet, lightweight, rugged and uses less power than a hard disk drive. Optionally, the KX3 can be built to handle extended temperature ranges from -40°C to 85°C. Encased in metal enclosure and designed with carefully selected extended thermal range components, the MasterDrive KX3 was engineered to withstand the full industrial temperature range. Available in capacities from 32GB to 256GB.

### Physical Specifications

Form Factor	1.8"
Capacity*	32GB - 256GB
Dimension	78.5 X 54.0 X 5.0 mm
SATA Interface	Micro SATA-II
NAND Flash	MLC
Cache	128MB DRAM Cache
Power Supply	3.3V ± 10%
Case	Metal housing

### Environmental Specifications

Operating Shock	1500G
Operating Vibration	16G
Operating Temperature	-40°C to 85°C (Industrial)
Operating Humidity	5% to 98% RH
Operating Altitude	120000 ft

### Reliability Specifications

MTBF	1,000,000 hours
Data Reliability	Built-in EDC/ECC function
Data Integrity	10 years
Wear Leveling Algor.	Dynamic and static wear-leveling

### Performance Specifications

	Seq. Read (MB/sec max)	Seq. Write (MB/sec max)
FUM32G818H (I)	140	50
FUM64G818H (I)	250	90
FUM28G818H (I)	250	120
FUM56G818H (I)	250	130

### Ordering Information

Capacity	Part Number
32GB	FUM32G818H(I)
64GB	FUM64G818H(I)
128GB	FUM28G818H(I)
256GB	FUM56G818H(I)

## MasterDrive KX3 Series Pin Assignments

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### Signal Connector

Pin	Symbol	Description
S1	GND	2nd mate
S2	A+	Differential Signal A from Phy
S3	A-	Differential Signal A from Phy
S4	GND	2nd mate
S5	B-	Differential Signal B from Phy
S6	B+	Differential Signal B from Phy
S7	GND	2nd mate

### Power Connector

Pin	Symbol	Description
P1	3.3V	3.3V Power
P2	3.3V	3.3V Power
P3	GND	1st mate
P4	GND	2nd mate
P5	5V	5V Power
P6	5V	5V Power
P7	DAS/DSS	Device Activity Signal / Disable Staggered Spinup
P8	OPT0	Not Used
P9	OPT1	Not Used

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